

CLAIMS

We claim:

1. A visual tool for creating a service component for use in a service logic execution environment (SLEE), comprising:

a first visual smartguide for creating service building blocks, each said service building block comprising at least one event handler for handling specific events received from an event routing bus in said SLEE; and,

a second visual smartguide for creating deployment descriptors for said created service building blocks, each said deployment descriptor comprising a service description and a list of supported events which can be handled by an associated service building block; and,

a visual composition interface through which visual representations of said service building blocks can be arranged to form the service component.

2. The visual tool of claim 1, wherein said service building blocks are software components.

3. The visual tool of claim 2, wherein said software components are Java beans.

4. The visual tool of claim 1, wherein said first visual smartguide comprises at least one selectable procedure for generating a plurality of utility classes for inclusion in a service building block.

5. The visual tool of claim 1, wherein said first visual smartguide comprises a database of event handlers from which said at least one event handler can be selected for addition to said service building block.

1 6. The visual tool of claim 1, wherein said second visual smartguide comprises a
2 database of event handlers from which a list of supported events for inclusion in said
3 deployment descriptor can be constructed.

1 7. The visual tool of claim 1, further comprising a service container which
2 encapsulates the service component.

1 8. The visual tool of claim 7, wherein said service container further comprises meta-
2 information for exposing container characteristics for said service container.

1 9. The visual tool of claim 8, wherein said meta-information comprises a plurality of
2 Java Native Definition Interface (JNDI) environment entries.

1 10. A method for visually generating a service component, said method comprising:
2 specifying at least one service building block, said specification comprising
3 visually selecting a plurality of event handlers for inclusion in said at least one service
4 building block;
5 exporting said at least one service building block, said exporting step producing a
6 deployment descriptor which describes events for which said at least one service
7 building block has been configured to handle;
8 visually arranging said at least one service block, said arrangement forming the
9 service component; and,
10 configuring the service component produced by said visual arrangement for
11 insertion in a service logic execution environment (SLEE) in an advanced intelligent
12 network.

1 11. The method of claim 10, further comprising the step of encapsulating the service
2 component in a service application container.

- 1 12. A machine readable storage, having stored thereon a computer program for
2 visually generating a service component, said computer program having a plurality of
3 code sections executable by a machine for causing the machine to perform the steps of:
4 specifying at least one service building block, said specification comprising
5 visually selecting a plurality of event handlers for inclusion in said at least one service
6 building block;
7 exporting said at least one service building block, said exporting step producing a
8 deployment descriptor which describes events for which said at least one service
9 building block has been configured to handle;
10 visually arranging said at least one service block, said arrangement forming the
11 service component; and,
12 configuring the service component produced by said visual arrangement for
13 insertion in a service logic execution environment (SLEE) in an advanced intelligent
14 network.
- 1 13. The machine readable storage of claim 12, further comprising the step of
2 encapsulating the service component in a service application container.